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APPLICATION NO.		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,240		07/01/2003	Li-Xi Yang	CPMC-005/00US	3322
23419	7590	01/26/2005		EXAMINER	
	GODWA	•	OWENS, AMELIA A		
	AMINO RI		ART UNIT	PAPER NUMBER	
	LTO SQUA TO, CA 9		1625		

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)					
		10/612,	240	YANG, LI-XI					
	Office Action Summary	Examine	er	Art Unit					
		Amelia A	A. Owens	1625					
	The MAILING DATE of this commun	ication appears on ti	he cover sheet with the	correspondence ad	idress				
Period fo	• •								
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm e period for reply specified above is less than thirty (3) D period for reply is specified above, the maximum sta- tre to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no enunication. 0) days, a reply within the statutory period will apply and will, by statute, cause the apply and will, by statute, cause the apply and will, by statute, cause the apply and	event, however, may a reply be t atutory minimum of thirty (30) da will expire SIX (6) MONTHS from application to become ABANDON	imely filed ays will be considered timel in the mailing date of this c ED (35 U.S.C. § 133).					
Status									
1) 又	Responsive to communication(s) file	ed on 30 November	2004.						
· —	•	2b)⊠ This action is	··· - ·						
3)		<i>,</i> —		rosecution as to the	e merits is				
-,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
· · ·		ennlication							
7)63	Claim(s) <u>1-56</u> is/are pending in the application. 4a) Of the above claim(s) <u>2-7,9,11-13,16-21 and 25-56</u> is/are withdrawn from consideration.								
5)⊠	 ✓ Claim(s) 1.8,10,14 and 15 is/are allowed. 								
	Claim(s) <u>1,6,76,14 and 15</u> is/are allowed. Claim(s) <u>22-24</u> is/are rejected.								
·	Claim(s) is/are objected to.								
·	Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers								
		e Evaminer							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
.0,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.03(a).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
•—	under 35 U.S.C. § 119	•							
_	~	for foreign priority u	ndor 35 U.S.C. & 110/	n) (d) or (f)					
• —	Acknowledgment is made of a claim ☐ All b) ☐ Some * c) ☐ None of:	ior loreign priority u	nder 35 0.3.C. 9 119(a)-(u) or (i).					
a,	a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority			tion No					
	3. Copies of the certified copies				Stage				
	application from the Internation	•			9-				
* 9	See the attached detailed Office actio	•	* **	red.					
Attachmer	nt(s)								
1) Notice	ce of References Cited (PTO-892)		4) Interview Summar						
	ce of Draftsperson's Patent Drawing Review (F		Paper No(s)/Mail I		O-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-1 Other:									

DETAILED ACTION

Claims 1-56 are pending. No drawings were filed with the application.

Election

Applicant's election in paper dated November 30, 2004 is acknowledged. Because applicant did not distinctly and specifically point out any reason of impropriety or any err in the restriction requirement, the election has been treated as an election without traverse (MPEP 818.03(a)). Claims 1,8,10,14,15,22-24 drawn to the following scope as elected are prosecuted. The remaining subject matter of claims 2-7, 9,11-13,16-21 and 25-56 is withdrawn from consideration per 37 CFR 1.142(b).

Based on the election the following scope has been examined.

Compounds of formula where R is C(O)(CH2)m-X-R1 where X is a covalent bond; R1 is 6-membered heterocycle, i.e. thymin-1-yl.

Information Disclosure Statement

The IDS filed 11-17-2003 has been considered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 22-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are self conflicting because the claims are drawn to pharmaceutical compositions without a dosage limitation. Please note that a pharmaceutical composition by

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definition can not be either ineffective or toxic. Therefore a pharmaceutical composition without any dosage is self confliction. It is recommended that the term 'therapeutically effective amount' be incorporated into the claims.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 24 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

The nature of the invention: The nature of the invention is the method of treating a cancer in a patient (using the compound of claim 1) which has been known by the skilled artisan in the field to be highly unpredictable and ordinarily no general umbrella extrapolation of any specific data should be made.

The state of the prior art: The state of the prior art is that it involves screening in vitro and in vivo to determine which compounds exhibit the desired pharmacological activities (i.e. what compounds can treat which specific disease). There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face.

The predictability in the art: It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In re Fisher, 427 F. 2d 833, 166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. Cancer treatment has been known to be compound and disease specific, that is a particular compound or class of compound can be useful in treating a particular type or class of cancer.

The amount of guidance and working examples: Several compounds according to the invention have been made. A few types of cancer have been tested. However, it is unclear whether the tests are merely a screening method which can not be extrapolated without multiple cancer type t the generic scope as sought by the claims or whether the test is truly indicative of activity of the compounds.

The level of the skill in the art: The level of skill in the art is high. However, due to the unpredictability in the pharmaceutical art, it is noted that each embodiment of the invention is required to be individually assessed for physiological activity by in vitro and in vivo

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screening to determine which compounds exhibit the desired pharmacological activity and which types or class of cancers would benefit from this activity.

Thus, the specification fails to provide sufficient support of the broad use of the compounds of claim 1 for the treatment of cancer. As a result necessitating one of ordinary skill to perform an exhaustive search for which class or type of cancer can be treated by which compound of claim 1 in order to practice the claimed invention.

Genentech Inc. v. Novo Nordisk A/S (CA FC) 42 USPQ2d 1001, states that "a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and "[p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

Therefore, in view of the Wands factors and In re Fisher (CCPA 1970) discussed above, to practice the claimed invention herein, one of ordinary skill in the art would have to engage in undue experimentation to test which type or class of cancers can be treated by the compounds of the instant claims, with no assurance of success.

This rejection can be overcome by deleting the claims.

Allowable Subject Matter

The elected invention is allowable, i.e. compounds of formula where R is C(O)(CH2)m-X-R1 where X is a covalent bond; R1 is 6-membered heterocycle, i.e. thymin-1-yl.

It is suggested that the claims be limited to the elected invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amelia A. Owens whose telephone number is 571-272-0690. The examiner can normally be reached on Monday - Friday from 8:30 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amelia A. Owens Primary Examiner Art Unit 1625